

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/07684

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ G06F3/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ G06F3/12

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Kokai Jitsuyo Shinan Koho	1971-2003	Jitsuyo Shinan Toroku Koho	1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2002-140302 A (Naoki HORI), 17 May, 2002 (17.05.02), Full text; all drawings (Family: none)	46, 47
Y		1-5, 11-17, 22-25, 28, 34-36, 39, 49, 50, 53-55
A		6-10, 18-21, 26, 27, 29-33, 37, 38, 40-45, 48, 51, 52, 56, 57
Y	JP 2001-142665 A (SEIKO EPSON CORP.), 25 May, 2001 (25.05.01), Abstract (Family: none)	1-5, 11-17, 22-25, 28, 34-36, 39, 49, 50, 53-55

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

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Date of the actual completion of the international search
08 September, 2003 (08.09.03)Date of mailing of the international search report
16 September, 2003 (16.09.03)Name and mailing address of the ISA/
Japanese Patent Office

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2001-331660 A (SEIKO EPSON CORP.), 30 November, 2001 (30.11.01), Full text; all drawings (Family: none)	1-5, 11-17, 22-25, 28, 34-36, 39, 49, 50, 53-55
Y	EP 999494 A2 (SEIKO EPSON CORP.), 10 May, 2000 (10.05.00), Full text; all drawings & JP 2000-227890 A	1-5, 11-17, 22-25, 28, 34-36, 39, 49, 50, 53
A	JP 2001-75752 A (Casio Computer Co., Ltd.), 23 March, 2001 (23.03.01), (Family: none)	1-5, 11-17, 22-25, 28, 34-36, 39, 49, 50, 53
A	WO 97/13341 A1 (INTERNATIONAL SERIES RESEARCH, INC.), 10 April, 1997 (10.04.97), & JP 11-512860 A & US 5757916 A1	7-10, 18-21, 29-33, 40-45, 48, 51, 52, 56, 57